International Application No PCT/U S2004/041392

		PC	1/0 52004/041392			
A CLASS IPC 7	FICATION OF SUBJECT MATTER H01L33/00					
	to International Patent Classification (IPC) or to both national class	sification and IPC				
	S SEARCHED documentation searched (classification system followed by classification system followed by class	ication symbols)				
IPC 7	· · · · · · · · · · · · · · · · · · ·					
Documenta	ation searched other than minimum documentation to the extent t	hat such documents are included in	the fields searched			
Electronic (data base consulted during the international search (name of data	a hase and where practical search	terms used)			
EPO-Ir	·					
C DOCUM	IENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate of th	e relevant passages	Relevant to claim No			
X	US 6 184 544 Bl (TODA HIDEKAZU	ET AL)	1,2,			
•	6 February 2001 (2001-02-06)		15-20,			
			29-31			
1	the whole document		21-28			
<	US 6 093 940 A (ISHINAGA ET AL	1	1-4,7,			
`	25 July 2000 (2000-07-25)	,	9-11,			
			15-20,			
			29,31			
1	the whole document		8,12-14			
K	WO 03/098709 & (POHM O) LTD:	TSOKAWA	1-6,			
`	SHINJI) 27 November 2003 (2003	WO 03/098709 A (ROHM CO., LTD; ISOKAWA 5				
	Sizioz, z, november roos (roos	11 2,,	15-20, 29,31			
Y	the whole document		13,14			
•	& EP 1 528 602 A (ROHM CO., LT	D)				
	4 May 2005 (2005-05-04)					
		-/"				
X Furt	ther documents are listed in the continuation of box C	X Patent family members	are listed in annex			
Special ca	ategories of cited documents	T* later document published af	ter the international filing date			
	ent defining the general state of the art which is not	or priority date and not in c	onflict with the application but notice or theory underlying the			
considered to be of particular relevance "E" earlier document but published on or after the international		invention	ones the deimed investion			
filing (date		el or cannot be considered to			
which	ent which may throw doubts on priority claim(s)or is cited to establish the publication date of another	involve an inventive step w Y document of particular relev	hen the document is taken alone ance; the claimed invention			
	n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	cannot be considered to in	volve a n inventive step when the			
other	means		eing obvious to a person skilled			
P* docume later t	ent published prior to the international filing date but than the priority date claimed	'& document member of the sa	me patent family			
Date of the	actual completion of the international search	Date of mailing of the intern	ational search report			
2	25 May 2005	U	09 2005			
Name and	mailing address of the ISA	Authorized officer				
	European Patent Office, P B 5818 Patentlaan 2					
	NL 2280 HV RijSWiJk Tel (+31 70) 340-2040, Tx 31 651 epo nl,	Rodri guez-Gi	rones M			
	Fax (+31-70) 340 301 6	Nour guez-G	Rodrï guez-Gi roneś , M			

International Application No PCT/US2004/041392

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Accessory Changer of Coccument, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X US 2003/189236 Al (ARNDT KARLHEINZ) 9 October 2003 (2003-10-09)	1-4,7,9, 15-20, 29,31 13,14
Y the whole document	13,14
Y US 6 392 778 B1 (PERDUIJN ARMAND B ET AL) 21 May 2002 (2002-05-21) abstract	21-28
US 5 914 501 A (ANTLE ET AL) 22 June 1999 (1999-06-22) the whole document	12-14
Y US 6 516 516 Bl (LEE BYEONG-DUCK)	8
11 February 2003 (2003-02-11) the whole document	1-31
WO 98/20718 A (SILICONIX INCORPORATED) 14 May 1998 (1998-05-14) the whole document	1-31

International application No PCT/US2004/041392

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain clams under Article 17(2)(a) for the following reasons
Claims Nos because they relate to subject matter not required to be searched by this Authority, namely
Claims Nos because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out specifically
3 I Claims Nos because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 64(a)
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows
see additional sheet
1 J As all required additional search fees were timely paid by the applicant, this Intβrnati onal Search Report covers all searchable claims
2 As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee
3 I As only some of the required additional search fees were timely paid by the applicant this International Search Report L—1 covers only those claims for which fees were paid, specifically claims Nos
No required additional search fees were timely paid by the applicant Consequently, this International Search Report is restricted by the invention first mentioned in the claims, it is covered by claims Nos 1-31
Remark on Protest The additional search fees were accompanied by the applicant s protest No protest accompanied the payment of additional search fees

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This Internati onal Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-31

A light emitti ng package comprising a chip carrier, a light emitti ng chip attached to the top surface of the chip carri er, and a lead frame attached to the top surface of the chip carri er.

2. cl aims: 32-37

A light emitter comprising a chip carrier, a light emitting chip attached to the top surface of the chip carrier, a lead frame electrically contacting electordes of the light emitting chip, and a support with printed circuitry, the lead frame electrically contacting the printed circuitry, and the chip carrier secured to the support without the lead frame intervening therebetween.

Information on patent family members

IntefrtWonal Application No PCT/US2004/041392

Patent document cited in search report		Publication date		Patent family member(s)		Publication data
us 6184544	BI	06-02-2001	JP	11220170	Α	10-08-1999
05 0104544	ы	00 02 2001	JP	11220178	A	10-08-1999
			DE	19901916	Al	05-08-1999
			DE	19901917	Al	05-08-1999
			DE	19901918	Al	29-07-1999
			us	6335545	BI	01-01-2002
us 6093940	Α	25-07-2000	JP	10290029	Α	27-10-1998
			US	5942770	Α	24-08-1999
wo 03098709		27-11-2003	JP	2003338640	Α	28-11-2003
WO 03090709	^	27 11 2000	CN	1545739	A	10-11-2004
			EP	1528602		04-05-2005
				03098709	Al	
			wo	03090709		27-11-2003
EP 1528602	Α	04-05-2005	JP	2003338640	Α	28-11-2003
			EP	1528602	ΑI	04-05-2005
			CN	1545739	Α	10-11-2004
			wo	03098709	ΑI	27-11-2003
us 2003189236	AI	09-10-2003	us	2003025170	AI	06-02-2003
03 2003 103230	~	00 10 2000	us	2002089047	Al	11-07-2002
			US	2004238930	Al	02-12-2004
				9907023	Ai	11-02-1999
			wo			01-04-2004
			DE	29825022	UI	22-07-2004
			DE	29825062	U	
			DE	59812835	DI	07-07-2005
•			EP	1566846	A2	24-08-2005
			EP	1004145	Al	31-05-2000
			JP	2001518692	Ţ	16-10-2001
			TW	408460	В	11-10-2000
			us	6376902	BI	23-04-2002
us 6392778	B	21-05-2002	wo	0055925	Al	21-09-2000
			EP	1082765	Al	14-03-2001
			JР	2002539626	T	19-11-2002
us 5914501		22-06-1999	DE	19919944	Al	09-03-2000
03 3314301	~	00 1000	GB	2341018	A	01-03-2000
			JP	2000077718	Â	14-03-2000
			KR	2000077718	Â	25-03-2000
			TW	418548	В	11-01-2001
			· · · · · · · · · · · · · · · · · · ·	410040		11-01-2001
us 6516516	В	11-02-2003	KR	214463		02-08-1999
			JP			19-08-1997
			us	5821615	Α	13-10-1998
 wo 9820718	Δ	14-05-1998	ΑU	5087698	Α	29-05-1998